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INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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			SECRET		1	
COUNTRY	Poland		RE	PORT		25X1
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	showing the	location and layo	a report pressics industry in Poput of various "L'an e subordination of the subordination of	oland. In add	laneous information to sketche tories, there is a les within the	a
		ENC	CLOSURE ATTACH PLEASE ROUTE	IED		
			SECRET			25X1
STATE	X ARMY X	NAVY X AIR	Х ГВІ	AEC		2 40

(Note: Washington distribution indicated by "X"; Field distribution by "#".)

NFORMATION

B) POLISH ECONOMIC INFORMATION

1) INDUSTRIES

General information on the production development of the "Electrotechnical Industries" in Poland.

From 1947-48 to 1951 a great impulse was given to the establishment of factories; for the manufacture of radio sets, telephones, and so forth, but at the time no importance was attached to the fact that the parts needed to build such instruments had to be purchased abroad. The reason for this was that in Poland there were no qualified technicians to handle the manufacture of parts. It was necessary to create a qualified class capable of remedying the deficiency.

The government, pressed by the demands of the "Soviet masters" in the production sector, thus had to meet considerable expenses to acquire such material abroad.

On the basis of this experience, it was decided to establish a special branch of the Ministry of Heavy Industry to deal exclusively with the manufacture of parts and different materials needed for the production of various types of telecommunications equipment.

In 1951, the "L" establishments began to appear; they handled the manufacture of tubes and spare parts for radios.

"T" and "L" factories.

25X1

- From the illustration attached to the paragraph on "Ministries" (Political Information) we can deduce the Directorate to which they are responsible within the Ministry of Heavy Industry, under which they are placed.

- 1 -

25X1 The "L" factories manufacture spare parts and tubes. The "T" factories manufacture mechanical parts and assemble various types of radio equipment. Higher Institute of Telecommunication Research - Warsaw 25X1 Location - In the Grochow section, eastern part of the city. - Km 1 to the east of the road to Bialystok (51-52/41-G). - Near the factory "T-1". Purpose - Research in the field of electrotechnics. - Study and implementation of projects sent from the USSR or other countries. 25X1 Atomic study centers in Poland General Data 25X1 the establishment of two centers for atomic studies located as follows: 1) in the Zeran section. 2) Krakow (51-52/35-M) Activity - They are under direct Soviet control, and receive instructions and projects for development directly from the USSR. The activity in these centers seemed to be suddenly interrupted after Gomulka's "Plenum." In fact, the Soviet government has stopped the shipment of machinery needed by these centers. 25X1 the consignment of a very limited quantity of cobalt from the USSR prior to the interruption. There is not even the equipment used in the production of "isotopes" in either center.

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SEGRET

	. •	25 X 1
	Raw materials find the electrical industry are imported	25 X 1
almost	in toto.	
a)	Aluminum Foil	
	- 5-7 microns in thickness, imported from: the	25 X 1
USSR		
	- Now an aluminum rolling mill	25 X ′
is being	g established at the new "Huta Warszawa" smelter in Warsaw.	
b)	Mica, from: USSR	25 X 1
ď)	Quartz,	
	Note: Synthetic quartz is not yet being produced in Poland.	
đ)	Raw materials for special ceramics	
	from: Czechoslovakia, China,	25 X 1
	-(Now also produced in Paland)	
, e,)	Chloric and phenylchloric waxes,	
f)	Special paper for condensers	
	- 6-7 microns in thickness from: Czechoslovakia	
g)	Leather for trimmings	
	03 mm in thickness,	
h)	Oil, vaseline, and synthetic wax preparations	
	- National production being improved.	
	"T" Factories	25 X ′
The:	se factories engage in the manufacture of mechanical parts and in the	
assembly	of radio, radar, and television sets, and telephones, under the jur-	
isdiction	n of the "Centralny Zarzad Telekomunikacyi" (Central Telecommunications	
dminist	ration).	
Rac	dio Transmitter and Receiver Factory in Warsaw	25 X 1
This	s factory is called "Kasprzak T-3." It is located between Ulica	
asprzaka	a and Ulica Karolkowa in the Vola quarter, in the eastern part of	
areau le	see settended sketch	

This is a complex of new buildings, with a surface area of about 50,000	
square meters, which began operations in July 1951. The directing manager	00
is a certain Kazimierezak. The factory employs about 20,000 workers, in-	
cluding 800 specialists; about 200 engineers and technicians constitute the	
directing personnel.	

This factory assembles radio sets and manufactures mechanical parts for the same. It also sets up radio receiving and transmitting stations for the Armed Forces (production in this regard was begun in 1952-1953).

Civilian radios turned out at the factory are 3-tube, 5-tube, and 7-tube sets of the "AGA" model and 5-tube and 7-tube radios 25X1 of the "POLONAISE" model. There is also a Polish radio modelled after the "AGA" but with a number of modification.

Types of radio receivers and transmitters for military use assembled at the factory include first of all the radio receiving stations already in use with the Armed Forces, copied after original Russian 25X1 sets, These are 50-watt crystal sets carried on the back.

Further, there are the 50-watt medium wave "K" receiver-transmitters, and finally the 500-watt mobile receiver-transmitters (markings not observed) with batteries and generators.

The factory has been producing about 100,000 civilian radios and about 100 receiver-transmitters for the Armed Forces [annually].

The production of the factory goes chiefly to domestic consumption.

Efforts have also been made to export the radios
but with only limited results.

25X1

- 4 -

As regards the raw materials, the metals, the wood, and the bakelite are produced domestically; the tubes and electrical replacement parts are produced in national factory "L."

Electric power comes from the transformer shed, housing three 1,000kilowatt transformers, with a total capacity of 3 megawatts.

Factory connections and means of transportation are supplied by two or three automobiles for the supervisory personnel and five 5-ton trucks

for the transport of material. There is no direct railway connection; the	
nearest railway line is about one kilometer away.	
Radio Factory in Dzierzoniow (51-52, 27-k)	25X1
The "T-6" factory is located as designated on the margin [between the	
parentheses above]	25 X 1
This is a factory (not new) producing civilian radios. Since 1955 one	
department of the factory has been engaged in the construction of radios	
for tanks.	
The factory employs about 2,000 workers. It turns out radio receiver-	
transmitters of an original type, reproduced by the Russians, a	25X1
12-crystal set with markings "RT-10," for tanks.	
Civilian radios produced are the portable "Pionier," the "Mazur," and	
the "Slazk." These are 5-tube radios run by direct current.	
Speaking in terms of annual production, the factory turned out 300,000	
radios of the three above-mentioned civilian types, for domestic use and	
for export; a limited number of these radios were exported	25 X 1
Production of receiver-transmitters for tanks, domestic use, amounted to	
500 sets.	

25X1 Radar Factory in Warsaw

The "T-1" factory is located (see attached sketch) in the Grochow District in the eastern part of Warsæw, about 3 kilometers northeast of the Vistula River, about one kilometer to the east of the highway to Bialystok (51-52, 41-G).



The factory is a new one and is situated opposite the Telecommunications Research Institute (P.I.T). It employs about 2,000 workers. It engages in the assembly line production of "SON" 9 radar sets, under Soviet license, for artillery firing, and of the "NYSSA" Radar, an original Polish type used along the border for the detection of planes.

The "NYSSA" radar has a range of 150 kilometers. It is mounted on a 10ton diesel-powered trailer truck and it has a descending antenna.

The "SON 9" is used for artillery firing, where there is no fire control center necessary for the automatic firing of artillery. Such a control center is not yet produced in Poland but is imported in its entirety from the USSR.

The "SON 4," a radar under Soviet license (smaller than the previously described "SON 9") is in the planning stage at this factory and the plans are at present under study at the Telecommunications Research Institute; it also comes in two parts (radar and trailer truck) for power.

The factory produces about 50 radar sets of the type "SON 9" annually.

	Telephone Factory at Radom	(51-52, 37-J)

25X1

Factory "T.9" is located in the northeastern part of Radom, about 1,500 meters from the center (see attached sketch). It is the old "Ericson" factory, modernized after World War II. The managing director is a certain Pinkiert,

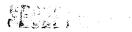
25X1

The factory employs about 600 workers. It manufactures telephones for civilian and military use, helmets with earphones and mouthpieces for planes and tanks, and "igniters for mines" of undertermined characteristics.

The military telephones turned out at the factory bear the markings "TAI." They are produced under Soviet license and weigh from 3 to 4 kilograms.

Note: the factory began the production of igniters for mines under Soviet

license	25X	(1



Television Factory in Warsaw

25X1

Factory "T. 15" is located in the Praha District of the city. It is a new factory which began production in January 1956. It occupies an area of about 25,000 square meters and employs about 1,500 workers.

The factory produces the "Avangard" television set, of undetermined characteristics, under Soviet license, and the "Visla," an original Polish set, likewise of undetermined characteristics.

Note: only the last-mentioned type was produced in 1957 , according to operational plans, production was scheduled at and, 50,000 units in 1957 and 120,000 units in 1960. A new type, to be called the "Polonez," of undetermined characteristics, is at present in the planning stage.

Telephone Exchange Factory in Warsaw

25X1

Factory "T.2" is located in the Grochow District of Warsaw, in the vicinity of Factory "T.1" previously mentioned. It is and telephone exchange factory with modernized equipment and buildings in part expanded.

The factory produces telephone exchanges with 500; 1,000; and 10,000 connections and employs about 1,200 workers.

Telephone Factory in Lodz (51-52, 33-J)

25X1

25X1

25X1

Factory "T.4" is located in Lodz It produces civilian telephones, radio material, radio amplifiers, and electrical

phonographs.

Note:

the establishment received directions to begin the manufacture of short-wave radio receiver-transmitters for the Armed

Forces. Production has not yet been begun but is reportedly scheduled at

1,000 to 2,000 units annually.

This factory employs about 1,200 workers. Annual production amounts to about 50,000 telephones, 10,000 radio amplifiers (from 8 to 500 watts), and about 10,000 electrical phonographs.

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- 25	5 X 1
SECRET	
25	5 X 1
Location	
On the west edge of the locality shown on the margin (not better pinpointed	
25	5X1
	, , ,
Campanalities	
<u>Generalities</u>	
It is a factory constructed about 1946-47 for the textile industry and	
then assigned to the "T" factories.	
Manufactures	
Radio amplifiers with plates, fed by selenium cells.	
Electric voltage transformers.	
Electric current rectifiers.	
Management	
<u>Manpower</u>	
Approx. 400 workers.	
Annual production	
Approx. 5,000 amplifiers.	
Approx. 20,000 transformers and rectifiers all told.	
Telephone switchboard factory atBYDGOSZCZ 25	5 X 1
30-G	
N ame	
"T_8"	
Location	
In town.	
In town.	
In town. SECRET	

25X1

SECRET Gneral Information This is an old factory which has been very slightly changed in equipment.	25X′
Manufactures	
Civil telephone switchboards to handle 100 calls	
Military telephone switchboards to handle 50 calls	
Teletypewriters.	
Manpower	
Approx. 500 workers.	
Annual production	
About 2,000 civil telephone switchboards	
About 200 military " "	
Number of teletypes unknown.	
High and Medium Frequency Generators FactoryWARSAW	25 X 1

Name

"T-12"

Location

In the ZERAN district, about one kilometer from the F.O.S. Auto Factory.

General Information

This is a factory constructed in 1948.

Manufactures

100 to 200 Watts.

High and Medium frequency generators of 20 to 50 KW.

Medium-frequency receiving and transmitting radio sets for aircraft;

Frequency generators for heating, from one to 10 KW.

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SECRET 25X1 Name "L-1" Location 25X1 In the VOLA district, east of the city Between KASPRZAK Street and KAROLKOVA Street, opposite the "T-3" Factory previously mentioned. General Information This is the former PHILIPS Factory, which was expanded and reconstructed after the last world war. Manager Engineer named SURKOWSKI 25X1 Manpower About 2,500 workers. Manufactures Lamps and tubes for radios. Special tubes for radar. Klastron for radar. Magneton for radar. Low-voltage fluorescent tubes. Transmission tubes of 100 to 200 Watts, on a Soviet license. Note: Microtube manufacturing planned, using equipment which may be 25X1 purchased Regarding manufacture of "Klystron", they are being made by hand rather than by assembly line method so far. SECRET

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25X1

25X1

SECRET

The Magneton is being slowly produced: 100 to 200 units a year, of the "M-2" and "M-3" type; characteristics unknown.

Annual production of lamps

5,000,000

Annual Production of Radio Tubes

3,000,000

Annual Production of Tubes for Military Radio Sets

100,000

Equipment

Ten machine lines called AUTOMAT, for mass production of lamps and tubes.

The machinery warm was made by the TUNGSRAM Hungarian factory and the PHILIPS Factory.

"L-8" Factory......WARSAW

25X1

Location

(See sketch shown on double page).

In VOLA district, east of the city.

On ULICA (street) KASPRZAKA.

General Information

This is a new factory, which was set up by separating the Tube Filament Department from the "L-1" Factory.

It began operating in 1956.

Manager

A man named GRODZICKI, a former worker.

Manpower

About 400 workers.

Manufactures	
Wolframite metal wires for radio tubes and electric bulbs.	
Molybdenum metal wires for radio tubes and electric bulbs.	
Both up to 5-micron thickness.	
Nickel advantage for electrical marrosco	
Nickel wire for electrical purposes. pipes	
Small metal for inside of radio tubes.	
Destination of products	
To the "L-1" Factory in Warsaw.	
"L-6" Factory inWARSAW	25 X 1
Location	
See sketch shown on page 11 of original)	
On ULICA KAROLKOWA, in the VOLA district, on the north side of "T-3"	
Factory, previously mentioned.	
Manufactures	
Machines used in "L-1" Factory in WARSAW.	
Checking and metering sets for lamps and tubes.	
<u>Manpower</u>	
About 400 workers.	
Note:	
This factory makes only machinery needed by the "L-1" Factory,	
or repairs machinery in use in that factory.	
Porcelain Factory in	25X1
Nome	

Name

"L-5".

Location	25 X 1
In the SLUZEWIEC district, about 8 kilometers from the center of the city	23 X I
About 2 kilometers east of the OKECJE Airport	
Near the/race track.	
General Information	
This is a new factory which was intended for the textile industry.	
Began operating in 1956.	
<u>Manufactures</u>	
Special porcelain for manufacture of following radio set parts:	
Resistor supports.	
Tube supports.	
Covering for variometers.	
Insides of resistor windings.	
Insulation for electrical condensers.	
<u>Manager</u>	
A man named POLKOWSKI, a former "U.B." officer who is not	
qualified for this job.	
<u>Manpower</u>	
About 800 workers.	
Destination of products	
Sent to the national "T" factories.	
•	
51-52 Condenser Factory inCRACOW	25 X 1

SEC RET

35≟1

Name	
"L-7".	
Location	
	25 X 1
Southeast of the city, at a distance of about 4 kilometers.	
About 500 meters south of the WISLA River.	
Manufactures	
Electrical conduits.	
Electrical resistors.	
Potentiometers.	
Feed plates.	
Condensers (made with paper of 6-8-10-12 micron), for radios, radar,	
video, small motors, fluorescent lamps, transformer booths.	
Condensers (made with mica sheets).	
Manpower	
About 2,000 workers.	
ABOUT 2,000 NOTROID.	
Production data	
Unknown.	
Loudspeaker and microphone factory in	25X′
<u>Name</u>	
"L-10".	
Location	
In the locality shown on the margin	25 X 1

General Information	
An old factory, modernized and expanded.	
<u>Manager</u>	
Man named SLEDRIEJOWSKI	
	25X
Manufactures	
Loudspeakers	
Throat phones	
Microphones	
Filters (antiparasite ?)	
Precision motors for remote control (radar), unknown to source.	
Note;	
The remote control motors were first manufactured early in 1957.	
Manpower	
About 1,000 workers.	
Annual production	
About 500,000 loudspeakers, throat phones and microphones all told (mass	
produced).	
About 100 motors for remote control (radar).	
Electrolytic condensers factory in 51-52BYDGOSZCZ 30-G	25X1
Designation	
"L-13"	
Location	
In town.	

Manufactures

Aba Electrolytic condensers.

Electrical equipment for mine machinery.

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		SECRET		25V1
Manpower				25 X 1
About 1,000 wo	rkers.			
Production				
Unknown.				
	Radar and television	lamps factory in		25 X 1
Designation				
"L-16"				
Location				
About 6 kilomet	ters south of the "L-	5" factory, which is	situated in the	
SLUZEWIEC distr				
Manager A certain G A	business L T A, former/manager	r of kin x another facto	ory.	
Gen. Informatio	<u>n</u>			
This is a new f by the end of t		in fulloperation but	will be so	
Manufactures				
Television lamp	s salima for CINESKOF	E sets.		
Radar lamps for	OSTILOSKOPE sets.			
Mass production	is foreseen for both	types.		
Manpower				
150 workers at	present.			
When fully open	rative it will employ	2,000 bluecollar wor	kers.	
:	Illumination lamps fa	ctory in	51–52 PABIANICE 33–J	25 X 1
Designation				
" 1– 2"				

Location

In the center of the locality shown on the margin.

Gen. Information

This is an old existing factory from world war II, partly modernized in its equipment.

Manufactures

Electric lighting lamps

Lamps for automobilew and trains.

Manpower

About 1,000 workers.

Annual Production

15,000,000 lamps.



Designation

"L-3"

Note:

This factory makes the very same products as "L-2", previously mentioned.

Designation

"L-4"

General Information

This is an old glass factory, now retogled for present manufactures.

Manufactures					
Glass for tubes and lamps					
Manpower About 100 applement					
About 400 workers					
Production					
On order from "L" factories (small lamps and tubes).					
. Metal parts for lamps and tubes	used in electrolytic 25X1				
condensers in	F2 F2				
•••••••	51-52 BIELSKO 33-m				
Designation					
"L-15"					
Gen. Information					
Old factory now in development; used to make aluminu	m tubes for toothpaste.				
Manufact					
Metal parts for lamps					
Aluminum tubes for electrolytic condensers					
Aluminum tubes for toothpaste.					
Manpower					
About 800 workers.					
"L-9" Factory in	WARSAW 25X1				
Location					
East edge of town, in the VOLA district.					
Gen. Information					
This is a detached department for factory "T-3".					
Manager: WIERZCHOWSKI.					
Manpower: About 300 workers.					
	25X1				

SECRET

25X1

